

PROJECT: Midnite Mine Remediation

REPORT NO: 2019-007

OWNER: Newmont/Dawn Mining

OPERATOR: Newmont/Dawn Mining

Summary of Work Activities or Events for this reporting period:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period May 10 - 16, 2019. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: <https://amcollab.mwhtools.com/sites/midnitemine>

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period May 10 – 16, 2019

FIRST AID INJURY	0	PROPERTY DAMAGE	2
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	1
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		

Comments: Non-occupational employee health issue emergency evacuation coordinated. Two incidents involving insignificant property damage occurred: 1) HT 6 made contact with HT 779 while maneuvering to park at the ready line, at the time an operator was standing on the catwalk cleaning the mirror and felt the impact, and 2) during loading HT 6, a rock dislodged from the bucket and made contact with the fiberglass fender creating a 2" hole.

COMMUNITY LIAISON

No issues or concerns were reported or received by Newmont from the Spokane Tribe of Indians Community Liaison Officer for the reporting period. The two planned community meetings were held in Wellpinit on May 13 and in Spokane May 14.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

Weekly Progress Meeting:

The Weekly Construction Progress meeting was held at 1000 hours on Wednesday, May 15, 2019 at the on-site conference room and via conference call. Representatives from the following stakeholders attended the meeting in person or via telephone:

- EPA
- US Army Corps of Engineers
- Dawn Mining Company (DMC)/Newmont
- Stantec

Meeting Action Items:

- None.

EPA Plan/Document Approvals:

- EPA approved the revised main text of the Remedial Action Work Plan (RAWP) on May 10.
- EPA approved the revised Radiation Protection Plan (RPP) on May 14.

Regulatory Site Visit(s):

- Mark Fillius of the US Army Corps of Engineers representing EPA was on site May 13 – 15.
- Linda Meyer, Davis Zhen, Elizabeth Allen, and Kira Lynch were on site on May 16 for a general site visit as well as to discuss cleanup criteria.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of May 10 – 16, 2019, the following activities were conducted:

- Excavating, hauling and placing material from the Lime Protore Stockpile 8 (Stockpile 8, low reactivity material), Protore Stockpile 4 (Stockpile 4, high activity/high reactivity material), Ore Stockpile 3 (Stockpile 3, high activity/high reactivity material) and South Waste Rock Pile (SWRP, low activity/low reactivity material) continued. Material from SWRP and Stockpile 8 were placed on the east and west side of Pit 4 to create the 20' rind buffer area. Some material from SWRP was placed at the south end of the pit to start forming the 20' rind for the top surface. The materials were excavated with either excavator or loader equipment and transported and plug dumped with haul trucks. The plug dumps were leveled with a dozer into lifts not exceeding 10' thick. Table 1 presents the 2019 Pit 4 mass haul materials volume. There was reduced production on May 16 due to a precipitation event.

Table 1 – 2019 Pit 4 mass haul volume estimates

Reporting Period	Truck Loads	Estimated Volume ¹ yd ³
May 10 - 16, 2019	2,951	82,628
2019 Cumulative	20,471	573,188

¹ – Truck load assumed to be 28 yd³

- Began placing Geocomposite Clay Liner (GCL) and Drain Gravel in the west Infiltration Collection system on May 10. The bentonite plug at the transition from the gravel-lined collection to the pipeline was installed on May 10.
- Monthly Spill Prevention Control and Countermeasures (SPCC) inspection was performed on May 10. The inspection report has been posted to the project SharePoint site.
- Lignosulfonate was applied to the East Access Road as a dust palliative on May 11.
- Material from the Construction Support Zone Structure Demolition Temporary Stockpile (CSZ SDTS) was placed in Pit 4 on May 13. CQC and CQA personnel confirmed on May 14 that the material was placed in conformance with the project requirement.
- Migratory bird survey of three areas: crest of South Waste Rock Pile south of Stockpile 8, Stockpile 1, Stockpile 2, and the Pit 4 Tie-In areas in preparation for clearing and grubbing activities on May 15. A mourning dove nest with eggs was identified in the area south of Stockpile 8 and will be avoided.
- Pit 4 tension crack was measured on May 13. The horizontal distance between movement pins remains at 53.75 inches.
- Installed 10' riser sections on the Underdrain and Waste Rock Dewatering Risers on May 10. The vertical risers are now at 230' to the Underdrain Sump (UDS) and 190' to the Waste Rock Dewatering Sump (WRDS).

Stormwater Pollution Prevention Plan (SWPPP) Activities

- None

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Three Caterpillar 745C articulated haul trucks were mobilized to the Site during the reporting period.

The following equipment was demobilized from the Site during this reporting period.

- None

All non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- None

Dust Control and Monitoring

Six dust monitors were operated during construction activities at the locations and for the time intervals listed in Table 2. The Total Suspended Particulate (TSP) action level of 260 micrograms/cubic meter was exceeded once during the reporting period.

The site received rain during the evening of 5/16/2019 and Samplers ES-2, ES-3, ES-4, ES-6 and ES-7 were turned off at approximately 9:00 p.m. Due to accessibility issues caused by the rain, ES-1 remained on and resulted in exceedance of the TSP action level. CQC and CQA personnel assessed the cause and determined the exceedance was due to environmental conditions (rain and fog) and not dust from construction related activities. The affected monitor was turned off the next morning.

Table 2 - TSP Dust Monitoring Locations during reporting period May 10 – 16, 2019

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thu
ES-1 (stationary)	Midnite Mine Top of Pit 4	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	04/01/19	D/N			D/N	D/N	D/N	D/E
ES-3 (stationary)	Midnite Mine West Boundary	04/01/19	D/N			D/N	D/N	D/N	D/E
ES-4 (roving)	Top of Stockpile 3	04/30/19	D/N			D/N	D/N	D/N	D/E
ES-5 (roving)	Spare								
ES-6 (roving)	East Side of Pit 4 next to portable light plant.	04/01/19	D/N			D/N	D/N	D/N	D/E
ES-7 (roving)	Southeast corner of Area 5	04/02/19	D/N			D/N	D/N	D/N	D/E
ES-8 (roving)	Spare								
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (Fog, smoke, pollen, etc.) – No Operation * Equipment malfunction (Battery)									

PROJECT DOCUMENTATION

Project Submittals, Engineering Change Notices (ECNs), Requests for Information (RFIs), Non-Compliance Notifications (NCNs), CQA-CQC Field Acceptance Forms and Other Items received, changed or noted before or during this time-period are shown in the table below:

Table 3 – CQA Documentation

Project Submittals			
Submittal No.	Title	Submittal Date	CQA Approval Date
01018-33	Lime Protore Stockpile #8 West Excavation As-Built Data	5/13/2019	TBD
Project ECNs			
ECN No.	Title	EPA Submittal Date	EPA Response Date
None			
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA Response Date
RFI 2019-06	Request for Additional Information on South Pond Materials II	5/7/2019	5/13/2019
RFI 2019-07	Request for Change to Non-Prorated Warranty Requirements for Geomembrane, Geonet and Geocomposite Drainage Layer Materials	5/7/2019	5/16/2019
RFI 2019-08	Detectable Identification Tape	5/10/2019	TBD
RFI 2019-09	Trench Compaction Testing	5/10/2019	TBD
Project NCNs			
NCN No.	Title	CQA Issue Date	CQC Response Date
None to Date			
CQA-CQC Field Acceptance Forms			
Acceptance No.	Title	CQC-CQA Issue Date	
2019-02	West Side IC System – Channel Subgrade Acceptance for Section 1	5/10/2019	
2019-03	West Side IC System – Channel Subgrade Acceptance for Section 2	5/13/2019	
2019-04	West Side IC System – Channel Subgrade Acceptance for Section 3	5/15/2019	
2019-05	West Side IC System – Channel Subgrade Acceptance for Section 4	5/15/2019	
2019-06	Stockpile 8 Excavation Verification (East Side)	5/16/2019	
Other Items			
Item	Title	Comments	
None			

A copy of the updated CQA Logs are provided on the project SharePoint site under the 2019 CQA Folder.

SITE INSPECTIONS

Details regarding the four-phase CQA observation/inspection process for each definable work feature is summarized above within each work-feature section and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- None during this time-period.

Initial Phase Inspections

- None during this time-period.

Follow-up Phase and Ongoing Inspections

Daily observations/inspections by CQA during Pit 4 backfill and other construction activities for the following site-specific tasks:

- Pit 4 Backfill
 - Mine waste excavated from Stockpile 8, the North SWRP and the South Pond Cut (all low reactivity material) was placed along the edges of the pit to construct the 20-foot buffer zone (rind). Mine waste excavated from Stockpiles 3 and 4 (high reactivity/high activity material) was placed in areas of the pit bounded by the 20-foot buffer zone.
- WRDS/UDS Risers
 - Another set of risers and friction sleeves were installed on 5/10/2019.
 - UDS risers are at a total depth of 230 feet.
 - WRDS risers are at a total depth of 190 feet.
- West Side Infiltration Collection System (WICS)
 - Excavation continued for the WICS channel located along the west side of Pit 4.
 - The channel subgrade was accepted by CQC-CQA for four sections of the main collector channel and the two corresponding lateral tie-ins.
 - CQC surveyed the channel subgrade prior to placement of the GCL and drain gravel.
 - GCL placement occurred for the four surveyed sections of the channel and the two corresponding lateral tie-ins.
 - Drain gravel was placed a minimum of 12 inches above the GCL material in the each of the accepted channel sections and tie-ins.
 - Approximately 700 feet of the WICS was constructed during this time period.

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

Three Week Lookahead Schedule

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:

David Lee
Project Construction Director

Attachments

- Attachment A – Midnite Mine 3 Week Lookahead Schedule

Photos of pertinent items are provided below.



Figure 1 – Western States lifting carbon steel friction sleeve to place over the stainless-steel riser pipe.



Figure 2 – Bentonite plug installed over GCL on the West Infiltration Collector.



Figure 3 – GCL being placed over prepared subgrade in the west Infiltration Collector



Figure 4 – 315 Excavator preparing subgrade for GCL in the west Infiltration Collector



Figure 5 – 390 Excavator loading SWRP material at the South Pond cut



Figure 6 – 390 Excavator loading Stockpile 4 material, D8 dozer assisting with grading

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Midnite Mine 2019 Production Schedule				Midnite Mine Remedial Action 3 Week Look Ahead Schedule				Data Date: 16-May-19 Print Date: 17-May-19			
Activity ID	Activity Name	% Complete	Remaining Duration	Start	Midnite Work Resp.	May 2019				June 2019	
						12	19	26	02	09	16
Midnite Mine 2019 Production Schedule				124	01-Apr-19 A						
Project Operations				124	01-Apr-19 A						
Pit 4 Operations				124	16-Apr-19 A						
DR10	Install Pit 4 Underdrain Dewatering Risers (LOE)	68%	124	16-Apr-19 A	NMC						
DR20	Install Pit 4 Waste Rock Dewatering Risers (LOE)	66%	124	16-Apr-19 A	NMC						
IC10	Install Pit 4 Infiltration Collectors (LOE)	37%	124	22-Apr-19 A	NMC						
WTP & South Pond Excavation to Pit 4				56	01-Apr-19 A						
Stockpiles 8, 3 and 4				11	01-Apr-19 A						
SP8-10	Excavate and Haul remaining portions of Stockpiles 8, 3 and 4	95%	11	01-Apr-19 A	NMC						
South Pond				56	06-May-19 A						
SP3,4&SoPond-30	Excavate and Haul South Pond to Pit 4	6%	56	06-May-19 A	NMC						
SWRP (South Waste Rock Pile) to Pit 4				53	01-Apr-19 A						
SWRP North				53	01-Apr-19 A						
SWRP-N-10	Excavate and Haul SWRP North to Pit 4 (Part 1)	10%	53	01-Apr-19 A	NMC						
SWRP Ramp to CSZ-WTP				20	16-May-19						
SWRP-CSZ+WTP-10	Excavate and Haul SWRP Ramp to CSZ+WTP to Pit 4	0%	20	16-May-19	NMC						

♦ Current Milestone
 Actual Work
 Remaining Work
 Critical Remaining Work
 Remaining Level of Effort
 Actual Level of Effort